Appl. No. 09/986,764

Page 1 of 2

Doc. Ref.: AN53

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

06-237276

(43) Date of publication of application: 23.08.1994

(51)Int.CI.

H04L 27/20

(21) Application number : **05-023102**

(71)Applicant: FUJITSU LTD

(22) Date of filing:

(72)Inventor: ONO MITSUHIRO

KAWASAKI TOSHIO

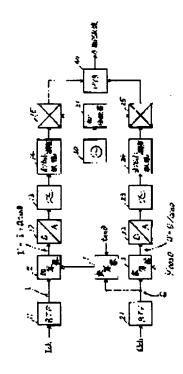
(54) QUADRATURE MODULATOR

(57) Abstract:

PURPOSE: To provide the quadrature modulator which uses a digital filter on each of the I channel side and the Q channel side but has a small circuitry as the whole.

12.02.1993

CONSTITUTION: In the quadrature modulator, outputs of I and Q channels which pass filters 11 and 21 are converted by D/A converters 12 and 22 and have harmonic components eliminated by filters 13 and 23 and have amplitudes uniformized by adjusters 14 and 24, and the output of a local oscillator 30 is distributed into two signals having 90° phase difference by a distributor 31, and these two signals have phases compensated by a means 32, and outputs of adjusters 14 and 24 are multiplied by output signals of the means 32 in multipliers 15 and 25 and are synthesized by a means 40. Phase compensation is stopped and only distribution is performed in this quadrature modulator; and if phase angles of two outputs I and Q are deviated from 90 by an angle θ , a value resulting from addition of an adder 2 between an output Qtanθ obtained by multiplying an output Q of he digital filter 21 by $tan\theta$ in a multiplier 1 and the output I of the digital filter 11 is used as an input I' of the D/A converter 12 on the I channel side, and a value obtained by multiplying the output Q of the digital filter 21 by $1/\cos\theta$ in a multiplier 3 is used as an input Q' of the D/A converter 22 on the Q channel side.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office